TOSHIBA
Satellite® 2405-S221 Series

Model(s):

Satellite 2405-S221 — **Part Number** PS240U-054ZVX

P4 1600MHz/15.0"TFT/256MB/30GB/DVD-CDRW/Mdm/LAN/WiFi/WinXP Home

Product Highlights

Performance
- Mobile Intel® Pentium® 4 processor-M at 1.60GHz
- 256MB expandable to 512MB

All-in-one design
- 30GB hard disk drive
- DVD-ROM/CDRW multi-function drive
- 3.5" 1.44MB floppy diskette drive

Great Features
- 15.0" TFT active matrix display
- 16MB S3 Super Savage video memory

Get On-Line
- Integrated 802.11b Wireless
- Integrated V.90/56K modem
- Integrated 10/100 Ethernet LAN

System Characteristics

CPU *(See CPU Performance Disclaimer)*
- Mobile Intel® Pentium® 4 processor-M at 1.60GHz
- Integrated co-processor

L2 Cache
- 512KB Level 2 Cache integrated on die
- 400MHz front side bus clock speed

Memory
- 256MB, expandable to 512MB; SODIMM expansion memory
- 128Mbit/256Mbit DDR, 2.5V
- Data/Address Bus Width; 64-bit/32-bit
- BIOS ROM: Intel FWH, 4Mbit
- Intel 82845MZ

Mass Storage
- **Floppy Disk Drive**: 3.5", 1.44MB
- **Primary Hard Disk Drive**: 30GB hard disk drive; Enhanced IDE (ATA-5); 9.7mm height max, 0.2lbs, 14.3ms average access time (read/write), 3ms track to track seek time (read/write), supports PIO mode4, Ultra DMA mode5, Multiword DMA mode2, service removable
- **DVD-ROM/CDRW**: Enhanced IDE (ATAPI Interface); Compatibility: CD-ROM, CD-R (read/write), CD-RW (read/re-write), DVD-ROM, DVD-R (read only),180ms (DVD-ROM)/130ms (CD-ROM) Access time (read/write), supports PIO mode4, Ultra DMA mode2, Multiword DMA mode2
- Software Decoder: WinDVD

Graphics/Video
- 15.0"TFT active-matrix display; Internal display supports up to 16M colors at 1024 x 768
- S3 Super Savage graphics controller; 16MB internal video memory
- 3D Graphics Accelerator, AGP bus support; 2D Graphics Accelerator, BitBLT, Hardware cursor, Direct Draw support
- External Color Support/Refresh rate:
  - 800 x 600; 60/75/85/100Hz Non-Interlaced @16M
  - 1024 x 768; 60/75/85 Non-Interlaced @16M
    60/75/85/100Hz Non-Interlaced @64K
  - 1280 x 1024: 60/75Hz Non-Interlaced @16M
    60/75/85Hz Non-Interlaced @64K
  - 1600 x 1200; 60Hz Non-Interlaced @16M
    60/75/85Hz Non-Interlaced @64K
  - 1920 x 1440; 60Hz Non-Interlaced@64K

Input Devices
- **Keyboard:** Full sized 85 keys with 12 function keys, 2.7mm key stroke, 6mm height; Dedicated Windows® & Application keys support; HotKey function; TouchPad pointing device w/scroll wheel (by Alps); Scroll function (by help of driver)
- **CD Control Function:** Play/Pause, Stop/Eject, Previous, Skip/Next, CD Power
- Instant Access Internet Button
- Toshiba Console Button

Expandability
- 2 Expansion memory slots; 2 PC Card slots support 2 Type II or 1 Type III PC Cards; 32-bit CardBus ready

Communications
- Integrated V.90/56K modem; Data and fax support
- Integrated 10/100 Ethernet LAN
- Integrated 802.11b Wireless LAN

Due to FCC limitations, speeds of 53kbps are the maximum permissible transmission rates during Download. Actual data transmission speeds will vary depending on line conditions.

Ports
- Parallel (ECP) port
- RGB Port (Monitor)
- 3 Universal Serial Bus ports
- Infrared port
- TV-Out (NTSC/PAL output; RCA jack)
- RJ-45 LAN port
- RJ-11 modem port
- SD (Secure Digital) slot

Physical Description
- Dimensions (LxWxH): 12.8" x 11.2" x 1.7"
- Weight: 7.81lbs
- LED Indicators: Power, Power Save Mode, HDD, FDD, CD/DVD, DC-IN, Caps Lock, Arrow, Numeric, Main Battery Charging Status, System Sleep / Suspend status, SD Card

Sound
- YMF753 Codec Chip; Software sound chip
- 16-bit stereo; Built-in stereo speakers
- 3D sound support; Direct 3D Sound; DirectSound (supported by driver) and DirectMusic; Full Duplex and MIDI support
- Sound Volume Control Dial
- **Ports:** Microphone port, headphone port

Power Supply
- **AC Adapter:** 75W external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input voltage, 15V x 5A Output.
  Dimensions (LxWxH): 5.5" x 2.2" x 1.1"
  Weight: 0.8 lbs
- **Battery Pack: 9**-cell, rechargeable, removable Li-Ion battery, 10.8V x 4500mAh = 48.6Wh
  Dimension (LxWxH): 6.8" x 2.7" x 0.7"
  Weight: 0.8 lbs
- Up to: 3h battery life; Recharge time(Off/On): 3h/4h-11h+ Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see your accessories information that shipped with your computer or visit the Toshiba web site at www.toshiba.com

Security
- Slot for computer lock, HDD and memory (by screw only), Main Battery Pack (sliding lock), Built-in Modem/LAN (screw only), User Power-on password, Setup Security, HDD Password, Keyboard Lock (by HotKey), Screen Blank (by Hotkey), Screen Saver by software, Fingerprint security (optional PC Card type),

Bios
- TSETUP, APM, ACPI, PnP, VESA, DPMS, DDC, SM BIOS, PC BIOS support

Operating System
- **Microsoft® Windows XP Home** pre-installed
- Windows 2000 component drivers on the web

Additional Software
- Lotus® SmartSuite Millennium Edition
- Intuit Quicken Basic 2001

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- Norton AntiVirus 2002
- AOL (3 –Month offer)
- Adobe Acrobat Reader
- Microsoft Internet Explorer
- Toshiba Custom Utilities
- Satellite Series Online Documentation
- ***Toshiba Great Software Offer*:** Receive your choice of two software titles. The software selection includes titles from the follow categories; productivity, education/reference, creativity and entertainment

Warranty

- 1 year parts, labor and battery

Environmental Specifications

- **Temperature:** Operating: 5° to 35°C (41° to 95°F); Non-operating: -20° to 65°C (-4° to 149°F)
- **Thermal gradient:** Operating: 15°C per hour maximum; Non-operating: 20°C per hour maximum
- **Relative Humidity:** Operating: 20% to 80% non-condensing; Non-operating: 10% to 95% ono-condensing
- **Altitude (relative to sea level):** Operating: -60 to 3000 meters; Non-operating: -60 to 10,000 meters
- **Shock:** Operating: 10G; Non-operating: 50G
- **Vibration:** Operating: 0.1G; Non-operating: 1.0G

Accessories

Kingston Memory

KTT3614/128	128MB DDR SDRAM Memory
KTT3614/256	256MB DDR SDRAM Memory
KTT3614/512	512MB DDR SDRAM Memory

Toshiba Secure Digital (SD) Memory

SD-M3203B3	32MB Secure Digital (SD) Memory
SD-M6403B3	64MB Secure Digital (SD) Memory
SD-M1283B3	128MB Secure Digital (SD) Memory

Cases (Targus)

NWCSS1	Suburban Carrying Case (nylon)
NWCEB1	Expedition Backpack
NWCER1	Excursion Roller

Other Accessories

PA3083U-1ACA	75W universal AC adapter
PA3107U-1BRS	Li-Ion Battery Pack
PA2488U	Battery Charger
PA450U	Targus Defcon Key Lock

Wi-Fi (Agere)

8484415560	Orinoco Wireless LAN PC Card (Gold)
8485582350	Orinoco AP-1000 Access Point
8485878380	Orinoco AP-500 Access Point
8485463880	Orinoco RG-1000 Residential Gateway
8485893390	Orinoco Range Extending Antenna

Product/Part Numbers/UPC

Satellite 2405-S221	PS240U-054ZVX

Central Processing Unit ("CPU") Performance Disclaimer:

CPU performance in your computer product may vary from specifications under the following conditions:

- use of certain external peripheral products
- use of battery power instead of AC power without changing factory pre-set power management settings
- use of certain multimedia games or videos with special effects
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 35°C (41°F to 95° F) or >25°C (77°F) at high altitude (all temperature references are approximate).

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product Resource Guide. Contact Toshiba Technical Service and Support for more information.

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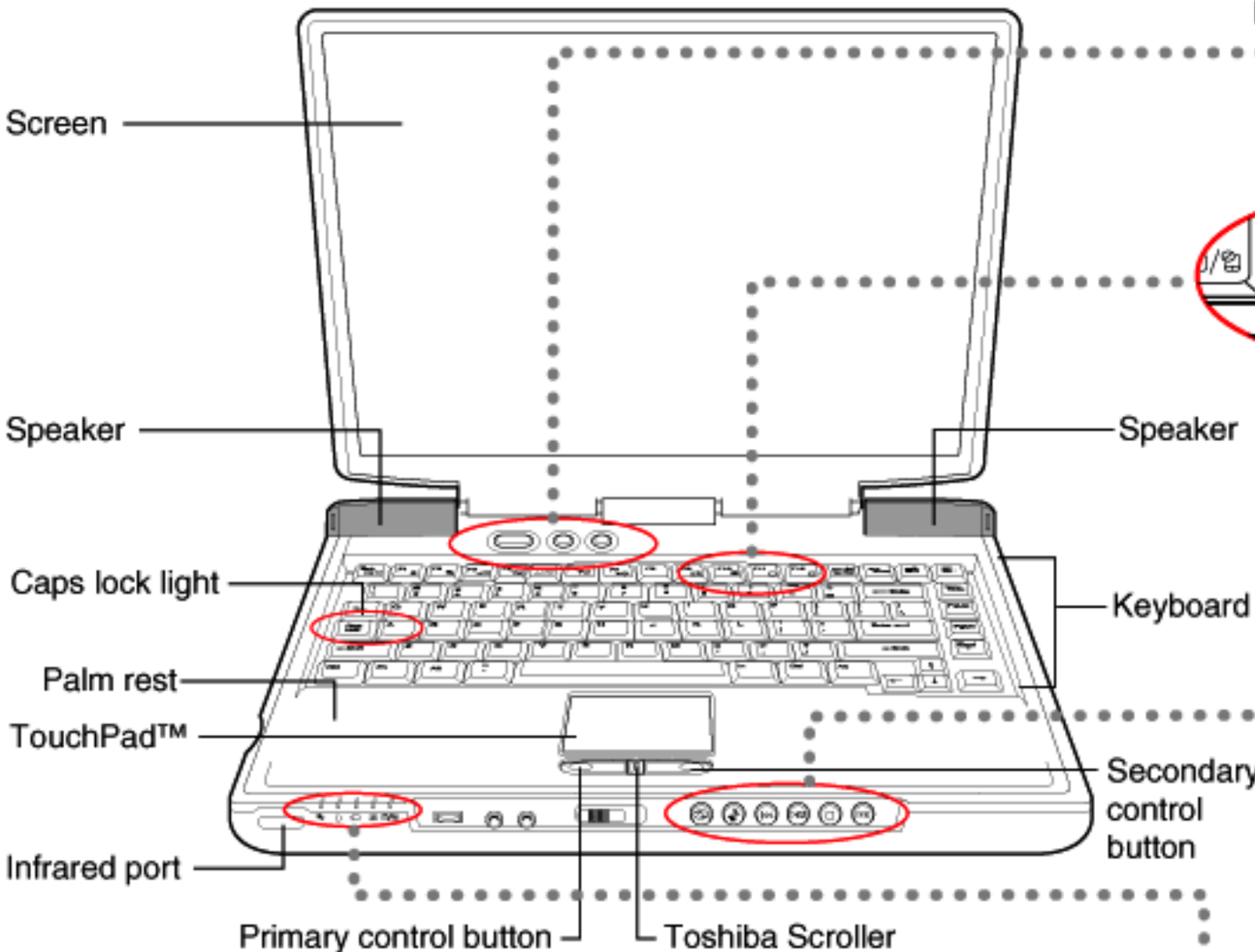
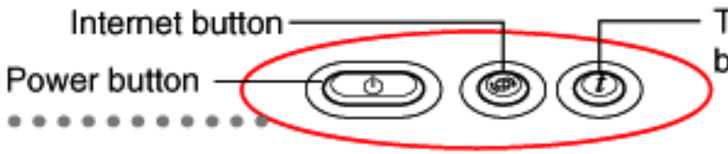
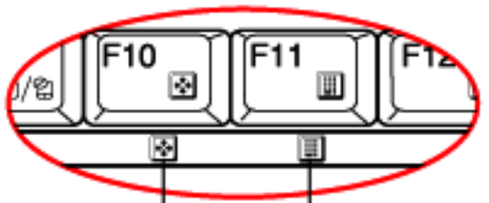
Front with display open

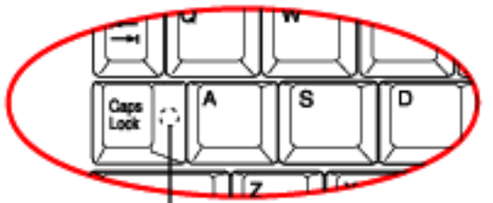


Panel buttons

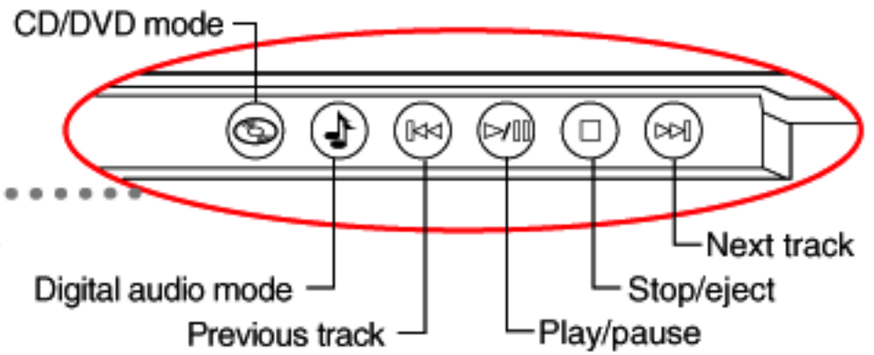


Keyboard indicator lights

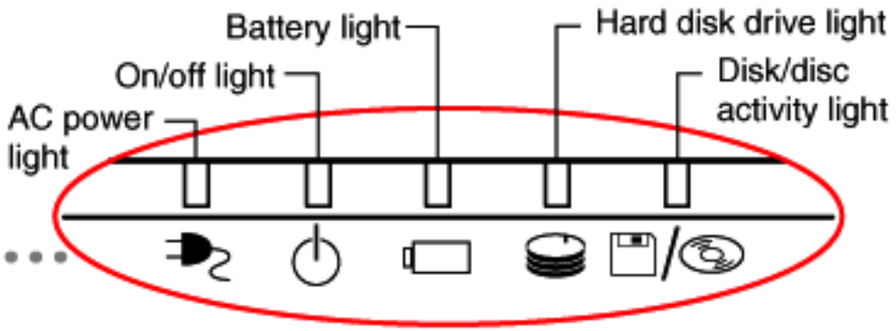




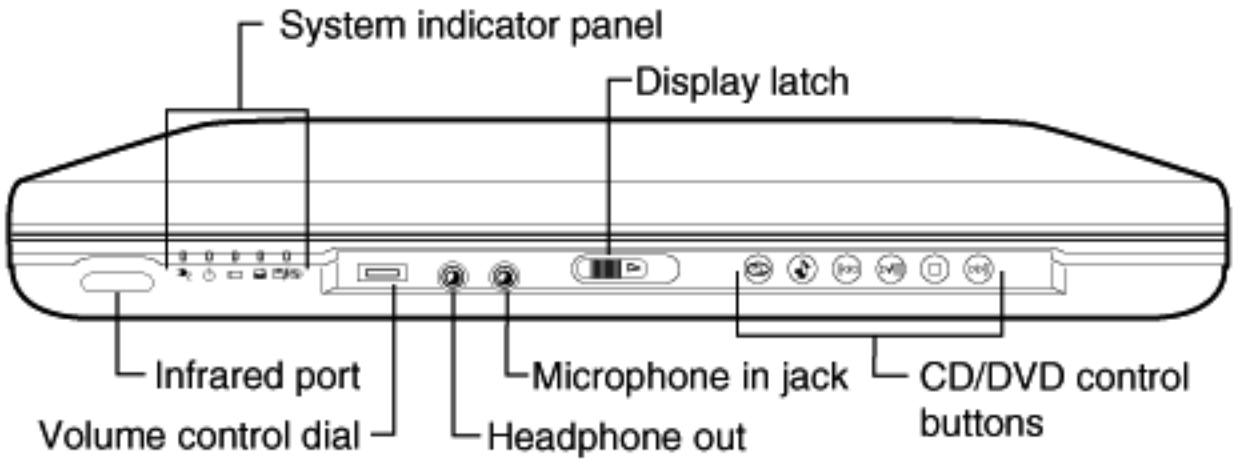
CD/DVD control buttons



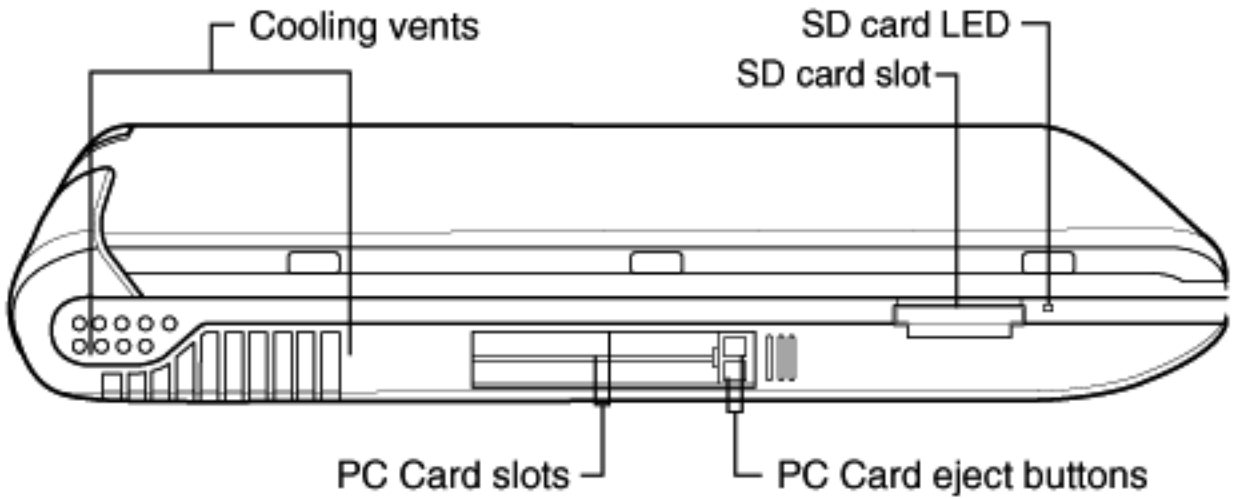
System indicator panel



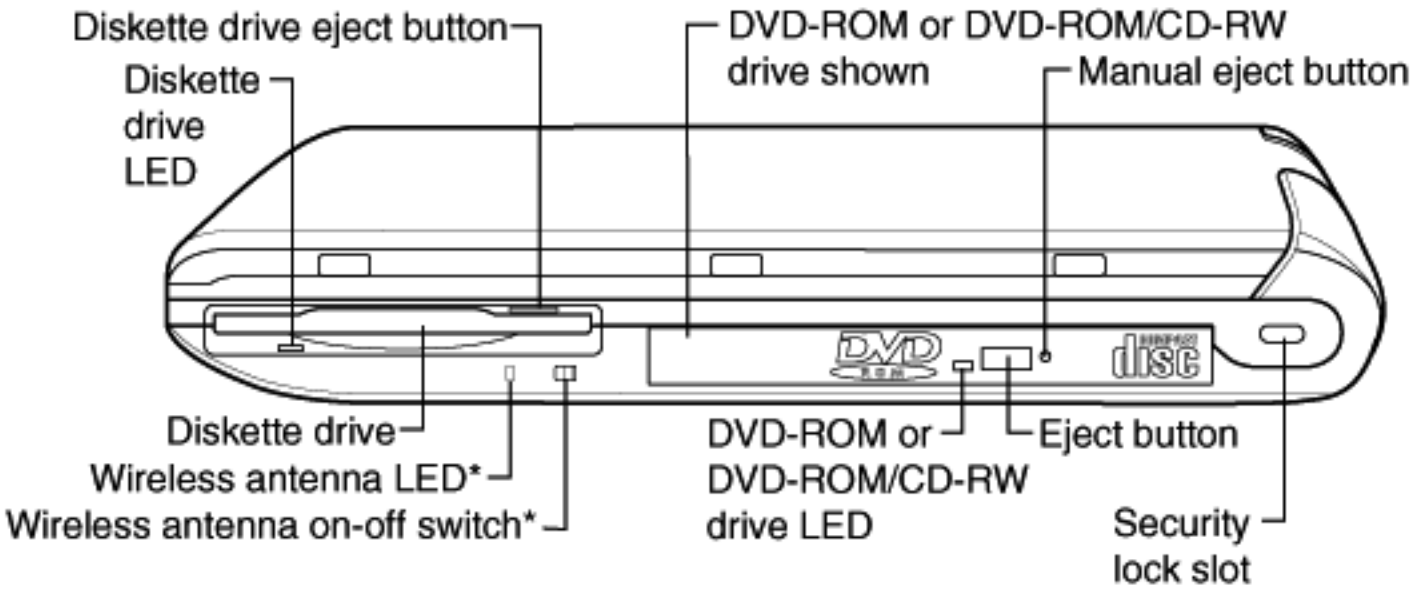
Front with display closed



Left side

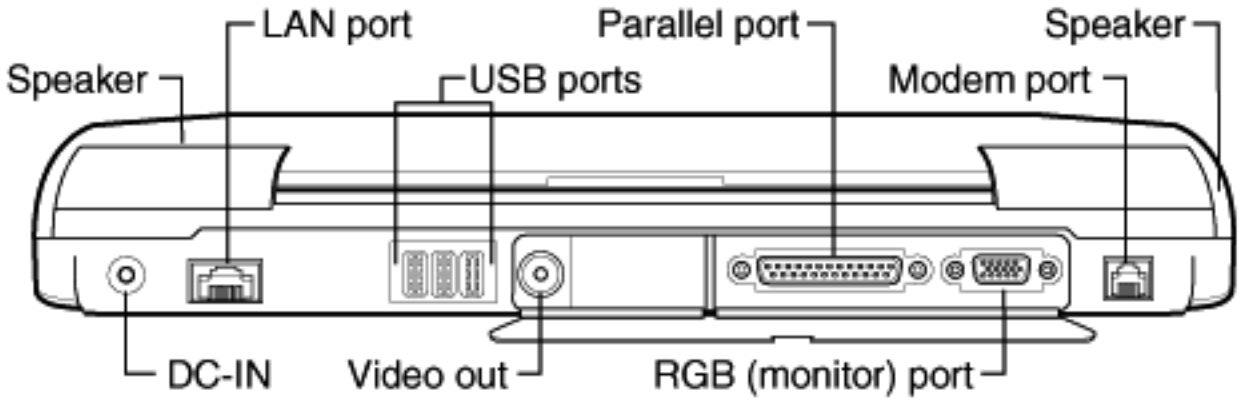

Cooling vents
SD card LED
SD card slot
PC Card slots
PC Card eject buttons

Right side

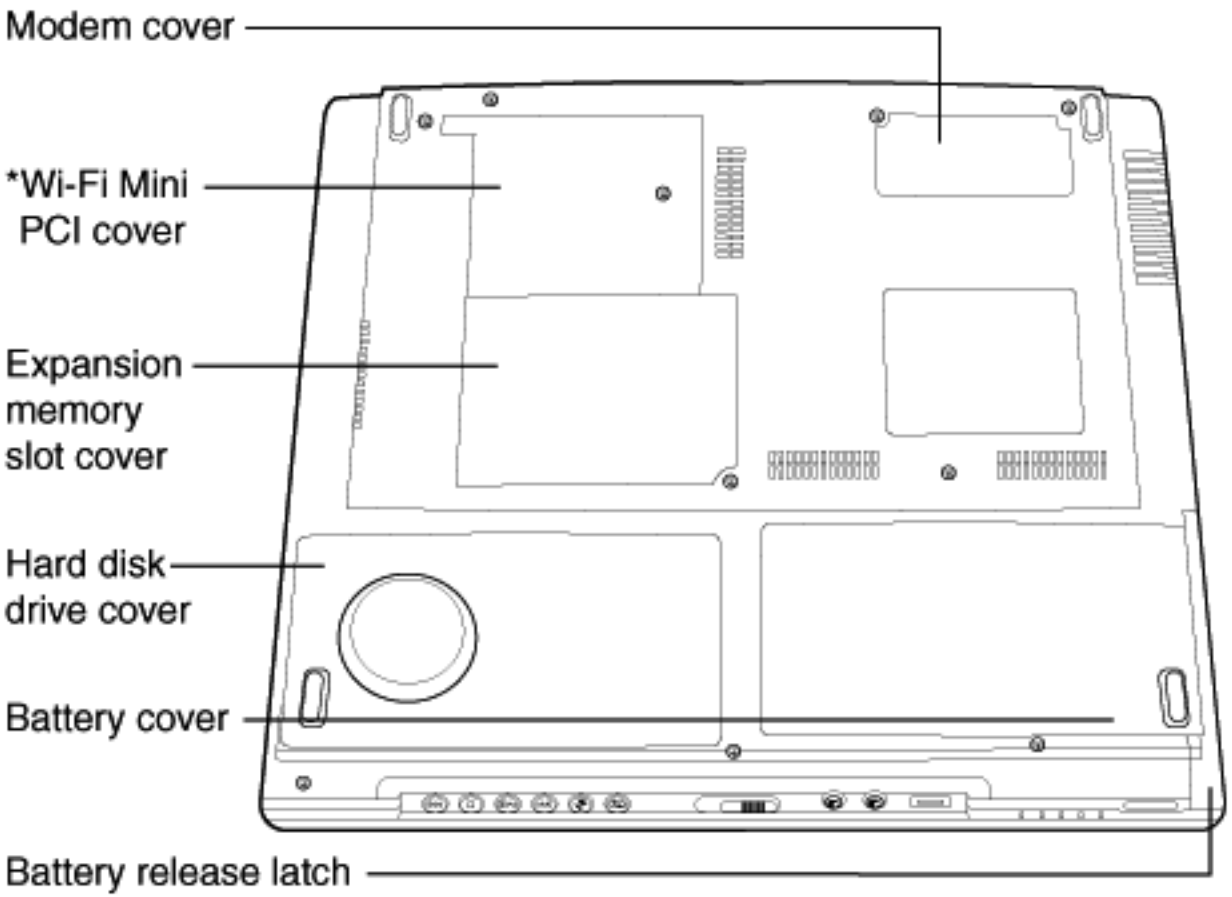


(*only functional for systems with Wi-Fi™)

Back


LAN port
Parallel port
Speaker
Speaker
USB ports
Modem port
DC-IN
Video out
RGB (monitor) port

Underside



*For systems with Wi-Fi